

## **ABSTRACT OF THE INVENTION**

A system for reducing multipath interference in a wireless data transmission generally includes a processor and memory device for capturing one or more data packets of the wireless data transmission. The transmitting device associates a time value and/or a spatial value to each of the data packets. Upon capture, the processor determines whether the captured data packet is reflective or non-reflective by comparing the time value or spatial value, as applicable, of the captured data packet to the time value or spatial value of each stored non-reflective packet. The system identifies the captured data packet as non-reflective, if the time value (or spatial value) of the captured packet is different from the time value (or spatial value) of each stored non-reflective packet.

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